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	AE	5,973,662	10/26/99	Singers et a	d.					
	AF	5,960,381	09/28/99	Singers et a	d.					
	AG	5,950,196	09/07/99	Pyreddy et e	al.					
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la	AR	Visualizing the Non	-Visual: Spatia	l analysis and	interaction with inform	ration from text docum	ents, James 1	4. Wise et al.		
		Proceedings of 1	EEE '95 Infon	mation Visualiz	ation, (£ pages) pages	51-58, Atlanta, GA, C	ctober 1995.	IEEE Servi	ce Center.	
1 7	AS	The Grammar of C	Graphics, Leland	d Wilkinson, C	1999 Springer-Verlag 1	New York, Inc., pages	297 & 298.			
	AT	Evaluation of a Too	ol for Visualiza	ition of Informa	ation Re serval Results,	Aravindan Veerasamy	et al.,		<u></u>	
		©1996 SIGIR,	Zurich, Switze	rland ACM. 8	pages.					
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7	AB	5,625,767	04/29/97	Bartell et al				•		
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7	AS	To See, or Not it	See is That th	e Query?, Robe	rt R. Korfhage, ©199.	I ACM, pages 134-141.				
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lo	AR	Mataphorio	Abstraction: The Rive	r of time and Complex System.	, R.R.	Singero, ©1998 John	son Gonirols.	Inc., pag	es 1-8 :		
)	AS	Matapharia	Abstraction: the Start	ield and Complex Systems, A.A	Sing	evo & b.S. Endres;					
/		1994 Sy	mposium on Human	Interaction with Complex System	ıs, pa	ges 34-46.					
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1 2	R	AC	Keim, Daniel A., "I	Designing Pixel-	Oriented Visualization Techniques: The	eory and Applications," (D 2000 IEEE	, pages 1-20						
	-,	AD	Dubin, David, "Doc	Dubin, David, "Document Analysis for Visualization," © 1995 ACM, pages 199-203.										
	 	AE	Mukherjea et al., "\	Mukherjea et al., "Visualizing the Results of Multimedia Web Search Engines," € 1996 IEEE, pages 1-2 plus drawing.										
		AF	Grewal et al., "A V	isual Representa	ntion of Search-engine Queries and the	ir Results," © 2000 IEE	E, pages 352	-356.	· · · · · · · · · · · · · · · · · · ·					
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		AG	Hoffman, Donald D.,	"Visual intelligen	ce: How we create what we see," © 1998 V	V.W. Norton, 4 pages from	web site.							
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		АН	Cooper and Ruger,	"A Simple Ques	stion Answering System." Proceedings	of TREC-9, NIST (Gait	nersburg, MD), pages 249	-255.					
		AI	von Schroeter et al.	, "From Raw Po	olyphonic Audio to Locating Recurring	Themes," pages 1-11.				·				
		N	Carey et al., "New	Paradigms in In	formation Visualization, © 2000 ACN	1. pages 307-309.								
		AK	Ruger et al., Autom	atic Query Feed	back Using Related Words," Proceeding	ngs of TREC-8, NIST (C	Jaithersburg.	MD), pages	421-423.					
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la	AL	Zervas et al., "The C	urse of Dimension	ality and Document Classering," ◆ 1999 IE	EEE, pages 19/1-19/3.				
	1						- 411 - 411		
	AM	Ruger, Stefan M., "F	eature Reduction f	for Information Retrieval." TREC-7, NIST	(Gaithersburg, MD), pages	409-412.			
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7	АВ	5,778,362	07/07/98	Deerwester						
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19	AR	Spence, Robert, Info	pemasion Visua	lization, The N	eighbourhood-Explore	n, ©2001 AGM Pross.	, pages-85-88	and reference	-page.	
7	AS	Mardia et al., K.V.,	- Multivariate -	Analysis: ©199	- Academio - Press; - pag	394-423. -				
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/ /	AT	Olsen et al., Kai A.	, Visualization	of a Documen	1 Collection: The Vi	be System, ©1993 Ren	rgamon Press	Ltd., pages 69)-81.	
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le	AR	Spoerri, Anselm, I	nfo Crystsal:	A visual tool for	r information retrieva	ul, €1993 IEEE, page	s 150-157.			
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lo	AC	AC Sewraz et al., "A Visual Information-Retrieval Navigator," BCS IRSG 2000 (Cambridge, UK, 5-7 April 2000), 10 pages.											
7			THE FOLLOWING FOUR (4) ITEMS ARE TALKS GIVEN AT VARIOUS CONFERENCES, NO WRITTEN MATERIALS										
			ARE AVAILAI	BLE.				<u>.</u>					
	AD	Ruger, S.M., "The Freedom to Forget: Multimedia Knowledge Management," University of Glasgew, Department of Computer Science.											
			· IR Group, 11 D	ecember 2000;	University of Exeter, Department of Co	omputer Science, 30 1	lovember-2000.	-					
	AE	-	Rugor, S.M., "Ghell	ongos of Inform	oction Retrieval on the Web," Knowled	ge Web Workshop, I	C. London. 23	Soptombor 199	.				
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	AF		Ruge r, S.M., "Effic	ions-Graphical-A	Addels for Date Mining," RIKEN, The	Institute of Physical	and Chemical F	Rosoarch, Wake	shi, Japon.				
/			12 June 1998; I	mperial College,	Department of Computing, London, 1	8 March 1998.							
	AG		Ru ger, SiM., "Lorg	Soulo Data Mi	ning - Everywhere on the Internet," G	MD, Forschungszonin	um-Informations	Hoshnik GmbH	•				
			Berlin-Adlershof	, 22 October 19	97.								
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